

Installation manual
T4130
Compass Control

487 05 41 61.00
EN



Safety instructions



This machine is only intended for drying water-washed garments.

Clothes that have been cleaned with chemicals/inflammable liquids, must NOT be dried in the machine.

Remove clothes from the tumble dryer as soon as they are dry.

This prevents them from becoming creased, and reduces the risk of spontaneous ignition.

The machine must not be used for drying foam rubber or foamlike materials.

The machine must not be used for drying floor mops*.

The machine must not be used by minors.

The machine must not be hosed down with water.

Mechanical, electrical and gas installations must only be carried out by authorised personnel.

If the machine has a fault, this must be reported as soon as possible to the person in charge. This is important for your own safety and for the safety of others.

Gas dryers only:

The machine is not to be installed in rooms containing cleaning machines with perchloroethylene, TRICHLOROETHYLENE or CHLOROFLUOROCONTAINING HYDROCARBONS as cleaning agents.

What to do if you smell gas:

Do not try to light any appliance.

Do not touch any electrical switch; do not use any phone in your building.

Evacuate the room, building or area.

Contact the laundry manager.

*** Applies only to floor mops containing polypropylene.**

The dryer must not be installed behind a lockable door or a sliding door. In the rooms where the dryer is to be installed the door hinges must be on the outer side.

Contents

Technical data	6
Dimension sketch	7
Unpacking	8
Positioning	8
Mechanical installation.	8
Floor mounting.	8
Door reversal.	9
Installation on board a ship.	10
Washing column	11
Condensate dryer	12
Installation of ventilating system	12
Changing over condensate dryers.	13
Evacuation system	14
Air principle	14
Fresh air.	14
Exhaust duct	15
Electric installation	17
Function check.	18

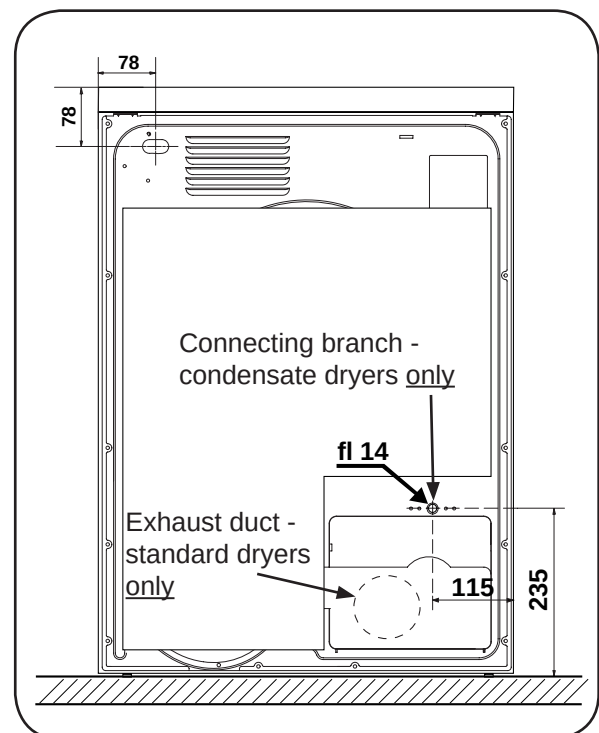
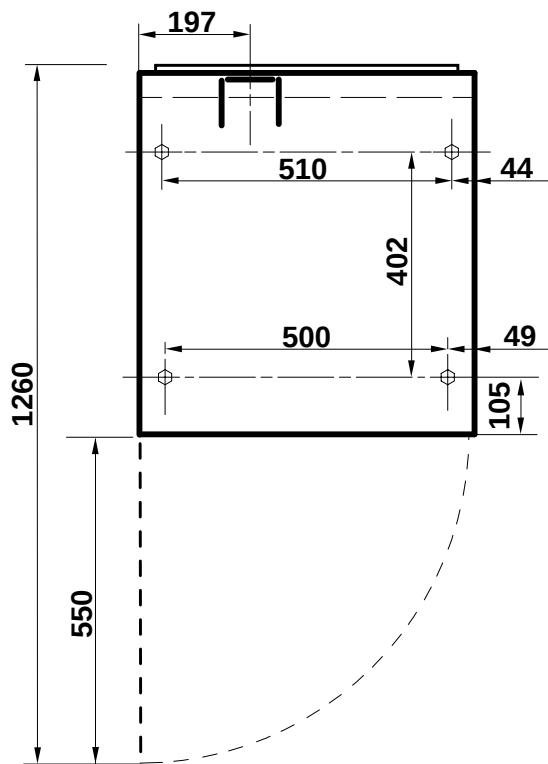
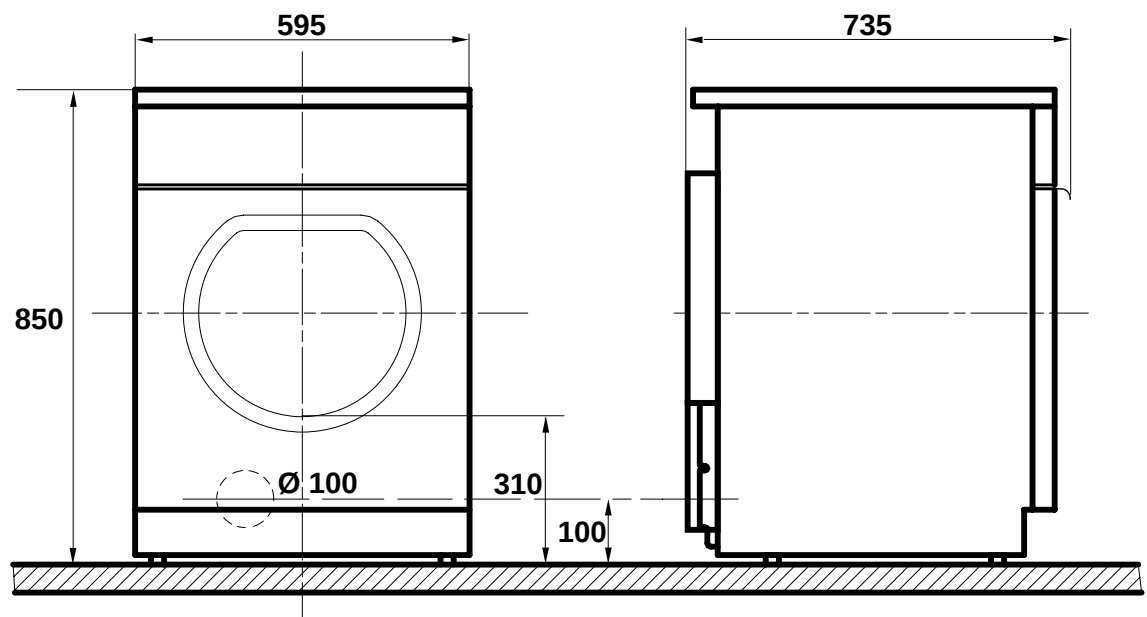
The manufacturer reserves the right to modify design and material specifications without notice.

Technical data

Technical data - T4130/4130C

		Standard dryer	Condensate dryer
Drum volume		130 liter	130 liter
Weight:	Netto	54 kg	57 kg
Drum:	Diameter	575 mm	575 mm
	Depth	500 mm	500 mm
	Revolutions	53 rpm	53 rpm
	G-factor	0.9	0.9
Capacity:		6 kg	6 kg
Heat effect:		5,1 / 3,2 kW	3,0 kW
Motor:	Effect	0,13 kW	0,20 kW
	Revolutions 50 Hz	2730 rpm	2730 rpm
	Revolutions 60 Hz	3330 rpm	3330 rpm
Air consumption:			260 m ³ /h
Piping:	Evacuation	Ø 100	
	Condensation water		1/2" hose to drain
Pressure drop: Evacuation 50/60 Hz		max. 60 Pa	
Sound pressure level:		< 70 dB (A)	< 70 dB (A)

Dimension sketch



Unpacking

Unpack the dryer from the packaging.

There are no transportation fittings. Release the dryer from the pallet by cutting the plastic ribbon.

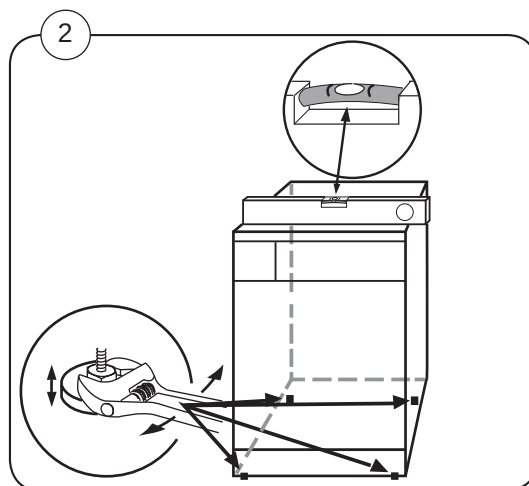
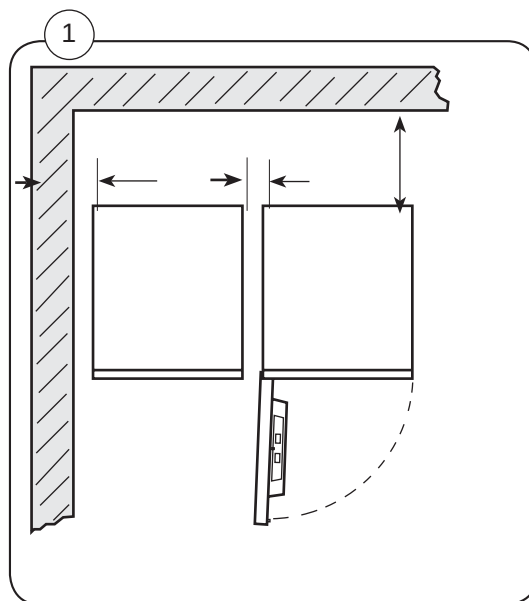
Positioning

Fig 1 Place the dryer in such a way that work can be done as easily as possible by the user as well as the service technician. The door is reversible.

1

The distance to the wall or other equipment behind the dryer should be min. 300 mm and the distance to the sides min. 70 mm (if the dryer is to be equipped with a coin box the width of the coin box must also be added). However, for the purpose of servicing the dryer there should be free access to the back of it.

The dryer can be positioned on a 55-litre washing machine to form a washing column.



Mechanical installation

Fig 2 Adjust the dryer to ensure that it is horizontal and stands firmly on all 4 feet.

2

The max. height adjustment is 14 mm.

Floor mounting

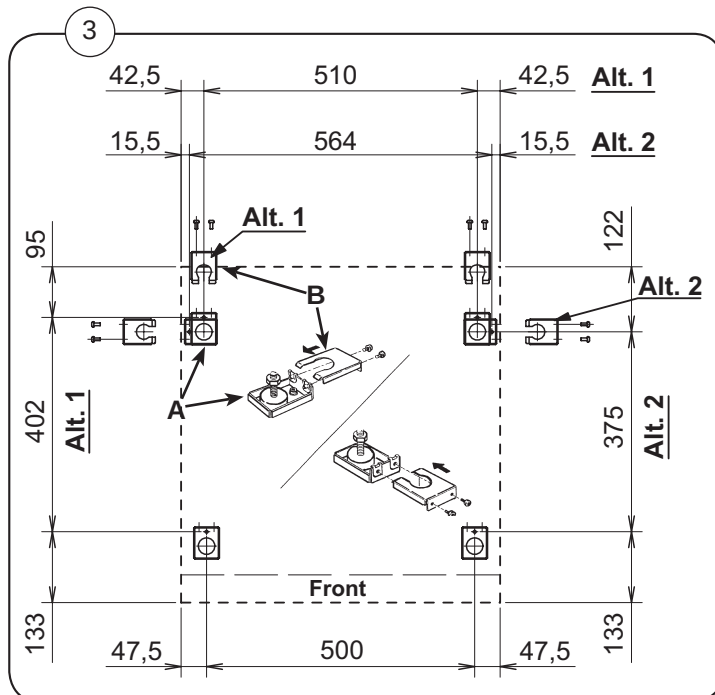
Fig 3 The dryer can be installed directly on the floor and fastened by means of the accompanying cups **A**.

3

Fasten the cups by means of the screws.

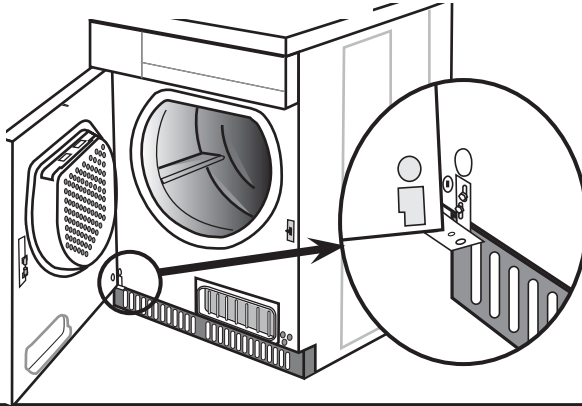
A drilling plan is given in fig. 3 in the form of alternative 1 (from the rear) or 2 (from the side), depending on the space for mounting the rocker brackets **B**.

Drill the rawlplug holes using a 10 mm drill.



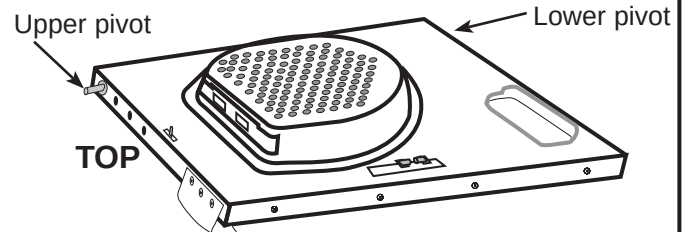
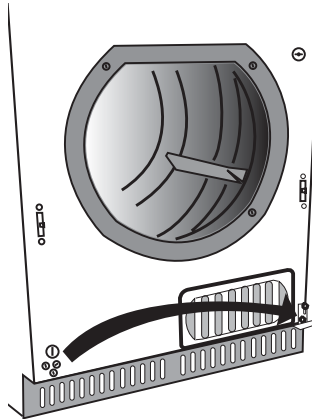
Door reversal

Door reversal



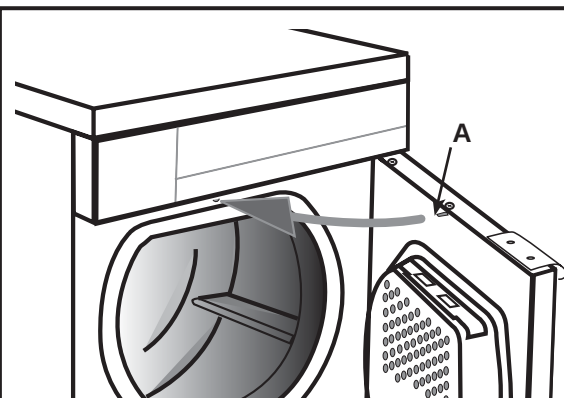
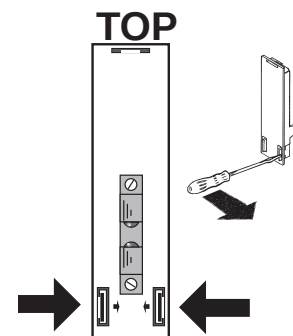
1. Disconnect the power supply to the dryer.
2. Loosen the hinge mounting and push it down to allow the door to be lifted off. Unscrew the hinge mounting.
NB! Hold the door securely while loosening the screws.

3. Unscrew the cover screws at the opposite side and loosely mount the hinge mounting. Screw in the cover screws where the hinge was previously mounted.



4. Remove the three black plugs at the top of the door.
5. Dismount the handle by loosening the three screws.
6. Remove the pivot at the top to the other side.

7. Mount the handle at the opposite side where the plugs used to be.
8. Insert the plugs where the handle used to be.
9. Remove the bottom pivot to the other side.
10. Release the locking plates by loosening the barb with a screwdriver.
11. Press out the locking plates, swap them over and press into position.

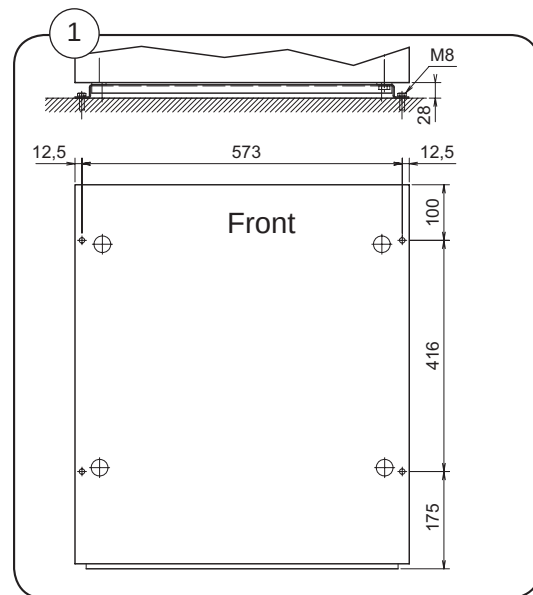


12. Mount the door. Push the hinge mounting upwards and tighten the screws.
13. Test the door (use washers to adjust the hinge if necessary). Check that door pin (A) is aligned with the microswitch aperture.
14. Connect the power to the dryer. Finally, check that the dryer stops when the door is opened.

Installation on board a ship

Fig 1 If the dryer is intended for installation on board a ship, fittings are mounted from factory (instead of feet) on the dryer for attachment to the ship floor by means of 4 M8 bolts.

Drilling plan, see fig. 1.



Washing column

Washing column

The dryer can be installed on top of a 55-litre washing machine WE455H or on a 130-litre dryer T4130(C).

The washer at the bottom must be levelled and rest on all four feet.

Fig
1

- Place the frame on the top plate of the lower machine, ensuring that the holes for the fastening bracket A are at the rear.

- Screw the dryer feet of the upper machine all the way home to ensure that they do not touch the top plate of the lower machine.

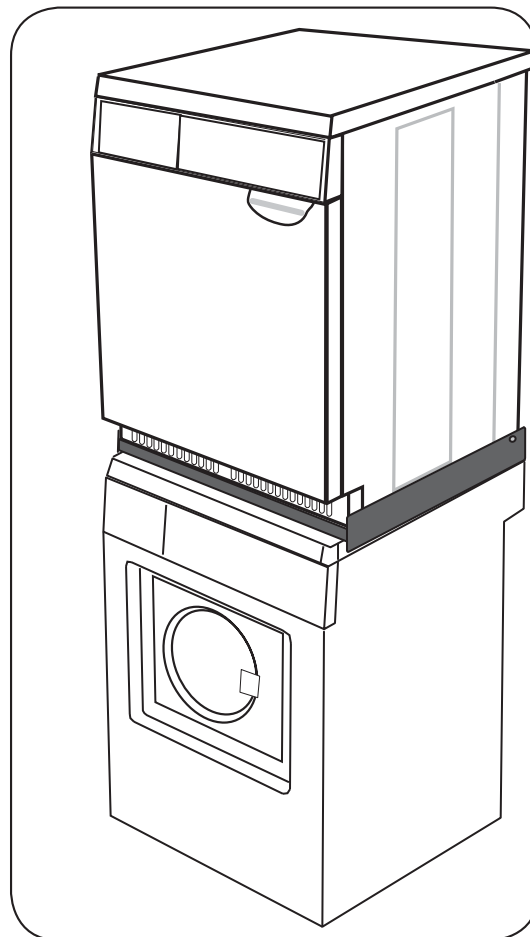
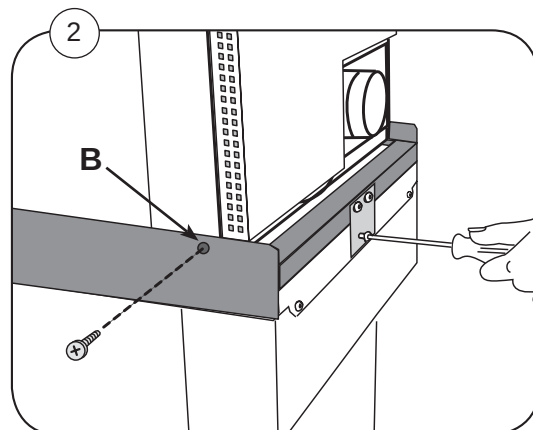
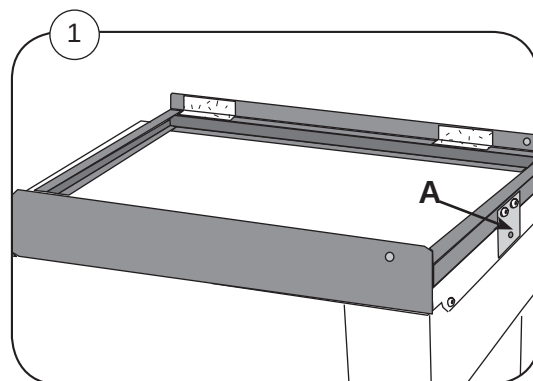
- Lift the dryer into position, thereby making sure that the machine fronts are flush.

Fig
2

- As a protection against tilting, the two accompanying plate screws are to be inserted in either side in holes B.

- If holes B are not provided in the side plates, drill them with a 3.3 mm drill.

Note! If it is hard to read the display adjust the contrast in the service menu (see the programming manual supplied with the dryer).



Condensate dryer

The condensate dryer does not have ventilation (evacuation) into the open.

The air is circulated in a closed system between the dryer and condensing unit.

The water in the garments condenses in the condensing unit.

All the energy (3,4/2,4 kW) used for drying the garments ends up in the room in the form of heat.

During operation, the room experiences a temperature increase, which results in a need for ventilation.

The moisture ends up as water in the drains.

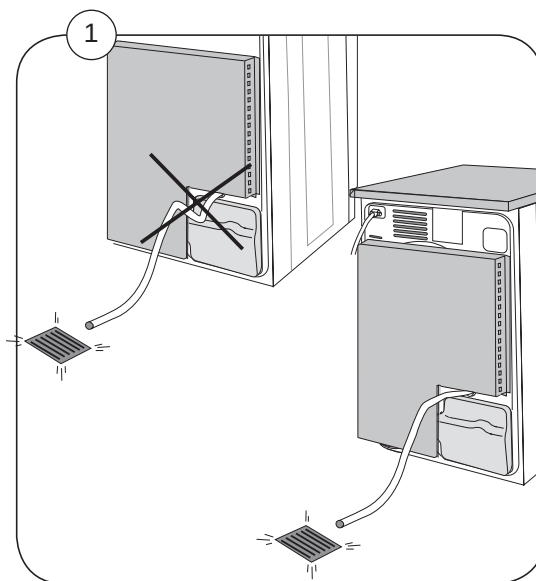


Fig 1 Note! The hose must be "sloping" towards the drain and not form a water trap.

Installation of ventilating system

For ventilation, a thermostatically controlled fan, type EQ 250, is used. It can be ordered as item no. 988 80 20 43.

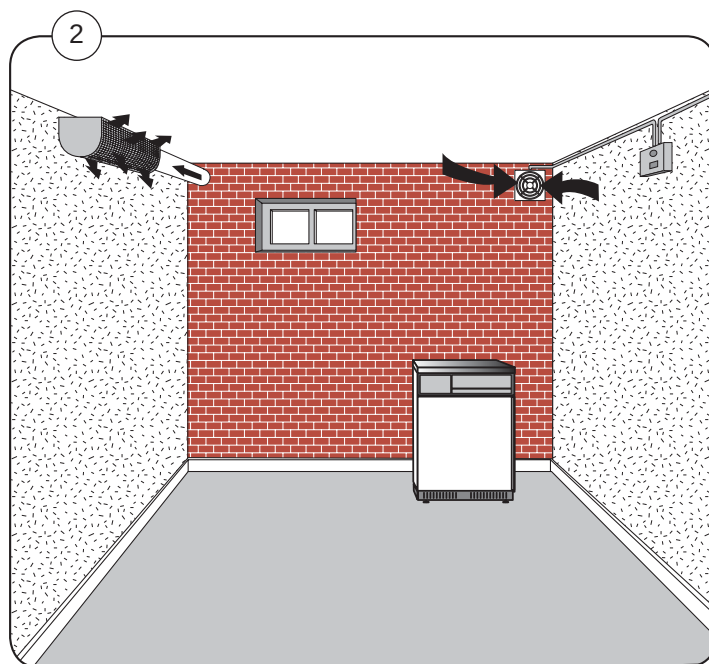
Fig 2 The fan is to be placed on a wall facing the outside behind the condensate dryer, while the thermostat is placed further into the room in an accessible place.

The fresh air intake must end in the room in front of the dryer, positioned diagonally from the fan.

Pressure drop max.: 10 Pa.

The fresh air requirement per dryer is 750 m³/h (if the temperature is kept constant).

The need for fresh air varies and is controlled by the thermostat.



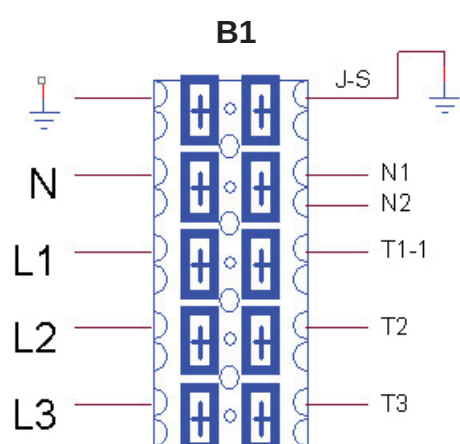
Changing over condensate dryers



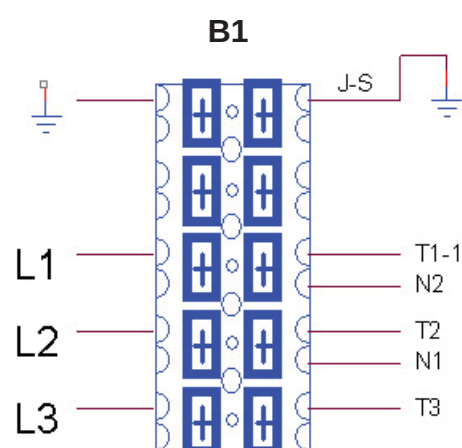
To be carried out by qualified personnel



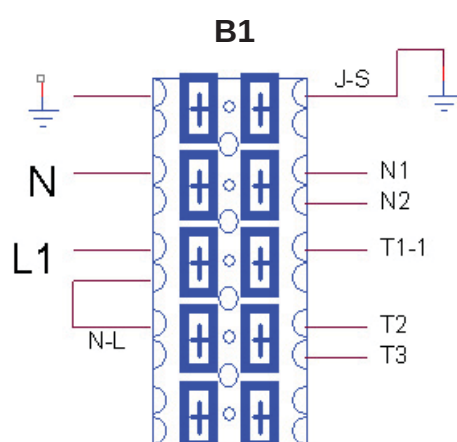
3 x 400/415V + N 3,4kW



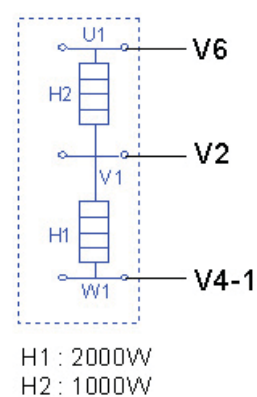
3 x 200/230/240V 3,4kW



1 x 230/240V 3,4kW



Applies to all dryer types



Evacuation system

(does not apply to condensate dryers)

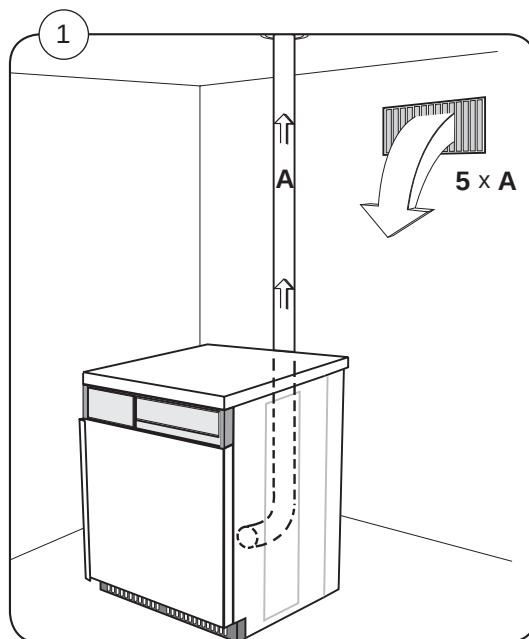
Air principle

The ventilator creates low pressure in the dryer, drawing air into the drum via the heating unit.

The heated air passes through the garments and the holes of the coarse filter.

Then the air flows through a lint screen positioned in the door. After this, the air is evacuated through the fan and the evacuation system.

It is very important that the dryer gets enough fresh air, see next section.



Fresh air

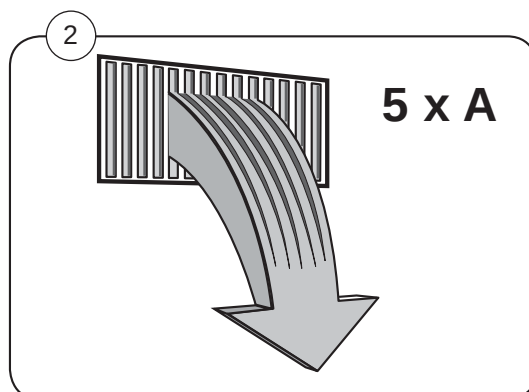
Fig 1 For the machine to work optimally with the shortest possible drying time, it is important for the air input to the room to come from an aperture from outside through which the same amount of air is taken into the room as is blown out. To avoid a draught in the room, the air inlet should preferably be placed behind the dryer.

Fig 2 The free area* of the air inlet aperture must be five times the area of the exhaust duct. The resistance in the grating/slats should not exceed 10 Pa (0.1 mbar).

The air consumption is approx. 260 m³/h.

Note that grates/slatted openings often block half the total area of the fresh air intake. Remember to make allowance for this fact when dimensioning.

* The free area is the area which the air can flow through without resistance from grate/slatted opening.



Evacuation system

Exhaust duct

- The exhaust duct must be smooth on the inside (low air resistance).
- The exhaust duct must lead to the outdoors.
- The exhaust duct must lead clear of the building as condensation may cause frost damage to the building.
- The exhaust duct must be protected against rain and foreign objects.

Fig • The exhaust duct must have gentle bends.

- ① • The exhaust duct must not be a shared duct between dryers and appliances using gas or other fuels as their energy source.

When several dryers share an exhaust duct

Fig • The exhaust duct diameter must increase after each dryer.

②

The table below shows the exhaust duct diameter and the necessary fresh-air inlet area.

Note! It is recommended that each dryer is connected to a separate exhaust duct.



The exhaust duct diameter must not be reduced.

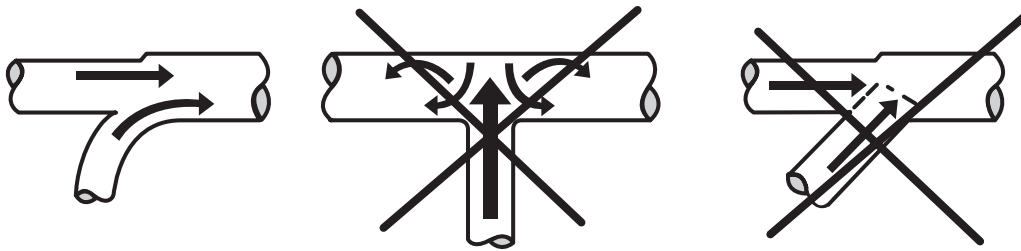
** If the exhaust duct length exceeds 6 m the diameter must be increased.

No. of dryers	Exhaust m ³ /h	d mm	Fresh air inlet cm ²	Exhaust duct length 0-6m d	**Exhaust duct length 6-50m d
1	260	ø100	400	ø100	ø160
2	520	ø100	800	ø160	ø200
3	780	ø100	1200	ø200	ø250
4	1040	ø100	1600	ø250	ø350

Exhaust duct

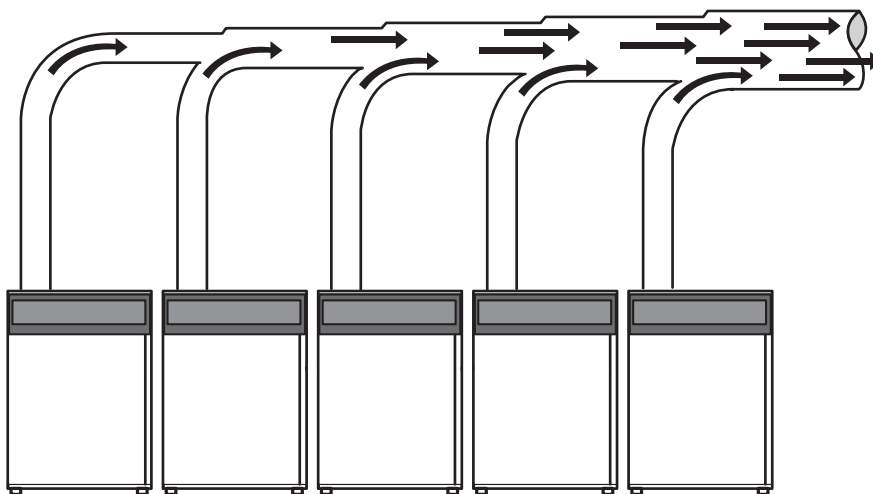
Gentle bends

1



Several dryers share an exhaust duct

2



Electric installation

Electric installation



To be carried out by qualified personnel



The dryer must be given a fuse group of its own and switch in accordance with IEC 60947.

For each dryer, a multi-pole permanent switch is to be placed in the permanent installation. It must be easily accessible, but there must be no mistaking it for the operating switch for the dryer.

The motor features an integrated thermal fuse, which is why motor protection in the installation is unnecessary.

Remove the top plate of the dryer to connect the cable. Install the dryer as a permanent installation.

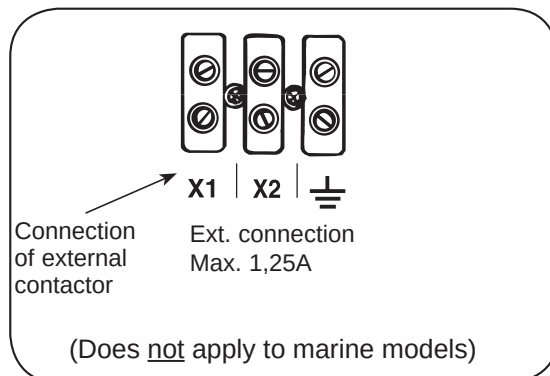
See dimensions in the table.

Function check, see next page.

The dryer must be equipped with supplementary protection in accordance with current regulations.

External fan

A connection terminal is available for controlling an external fan.



Cable dimensioning table

Type	Voltage		Power-intake	Heating	Fuse
Standard dryer	400-440V	3N / 3 AC	5,3 kW	5,1 kW	10A
	200-240V	3 AC	5,3 kW	5,1 kW	16A
	230-240V	3 AC	3,4 kW	3,2 kW	10A
	230-240V	1 AC	3,4 kW	3,2 kW	16A
Condensate dryer	400-440V	3N / 3 AC	3,4 kW	3,0 kW	10A
	230-240V	3 AC	3,4 kW	3,0 kW	10A
	230-240V	1 AC	3,4 kW	3,0 kW	16A
	200V	3 AC	3,4 kW	3,0 kW	16A

Function check



To be carried out by qualified personnel



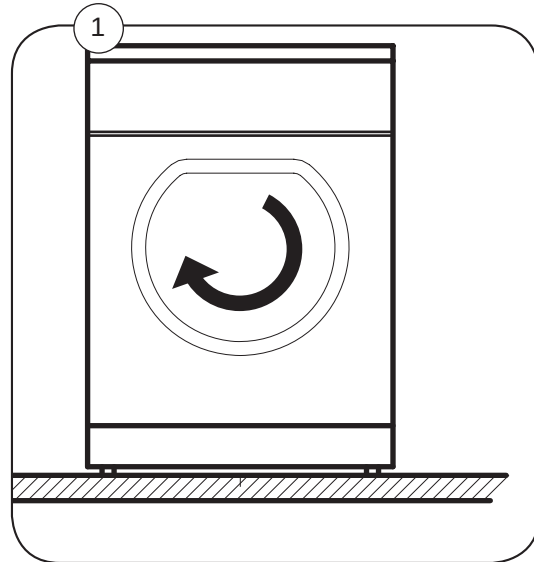
Check whether the drum is empty and the door has been closed.

Start the dryer

Check whether the door lock is working:

The drum must stop if the loading door is opened.

Fig 1 The dryer has a single phase motor, which is why the direction of rotation (clockwise) is always correct.



Marine version

For dryers on board a ship (3-phase motor) the direction of rotation must be checked.

If the direction of rotation is not correct, swop two phases on the connection terminal.

Final test

Let the dryer work for 5 minutes on a program that requires heat.

Then check whether the heating is working by opening the front door and feel the heat.

If the above tests-points are in order, the dryer is ready for use.

Service organisation/dealer

If deficiencies or errors are detected, please contact your local service organisation/dealer.



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